CLAIMS

A coordinate input apparatus, comprising:
 a plurality of X interconnecting lines and a
plurality of Y interconnecting lines disposed to

intersect with each other in a matrix fashion;

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a closed-loop forming circuit for being electrically connected with the X interconnecting lines or the Y interconnecting lines so as to switchably connect a predetermined number of the X interconnecting lines or a predetermined number of the Y interconnecting lines to form a closed loop; and

a detection circuit for detecting a signal outputted from the closed loop in response to a position indicator for indicating a position in a coordinate input area where the X interconnecting lines and the Y interconnecting lines are disposed in the matrix fashion;

wherein the closed loop is a multiple closed 20 loop.

2. An apparatus according to Claim 1, wherein the closed loop includes a switch circuit for selecting first to four X interconnecting lines from the plurality of X interconnecting lines so that:

a first terminal of the first X interconnecting line is connected with a first

terminal of the second X interconnecting line,

a first terminal of the third X interconnecting line is connected with a first output terminal.

a second terminal of the third X interconnecting line is connected with a second terminal of the first X interconnecting line,

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a first terminal of the fourth X interconnecting line is connected with a second output terminal, and

a second terminal of the fourth X interconnecting line is connected with a second terminal of the second X interconnecting line.

3. An apparatus according to Claim 2, wherein the closed loop includes a switch circuit for selecting first to four Y interconnecting lines from the plurality of Y interconnecting lines so that:

a first terminal of the first Y

interconnecting line is connected with a first terminal of the second Y interconnecting line,

a first terminal of the third Y interconnecting line is connected with a first output terminal,

a second terminal of the third Y interconnecting line is connected with a second terminal of the first Y interconnecting line,

a first terminal of the fourth Y interconnecting line is connected with a second output terminal, and

a second terminal of the fourth Y interconnecting line is connected with a second terminal of the second Y interconnecting line.

- An apparatus according to Claim 1, wherein the closed loop is sequentially formed at a constant pitch
 on the matrix of the X and Y interconnecting lines with a lapse of time.
- 5. An apparatus according to Claim 1, wherein on the matrix of the X and Y interconnecting lines, a

 15 closed loop formed timewise previously and a subsequent closed loop formed after the closed loop are selected to have an embedded structure.
- 6. An apparatus according to Claim 1, wherein the coordinate input area is formed in a display panel.
 - 7. An apparatus according to Claim 6, wherein the apparatus further comprises a circuit for switching a display drive mode using the matrix of the X and Y interconnecting lines and a coordinate detection drive mode using the matrix of the X and Y interconnecting lines.

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- 8. An apparatus according to Claim 6, wherein the display panel has a memory characteristic.
- 9. An apparatus according to Claim 8, wherein the display panel is an electrophoretic display panel.